#### IN THE CLAIMS:

Claims 1-6, 9-14, 17-24, 29, 32-37, 45, 51-56, 62 and 63 were previously cancelled. Claims 7, 8, 15, 16, 25-28, 30, 31, 38-44, 46-50, and 57-61 have been amended herein. All of the pending claims are presented below. This listing of claims will replace all prior versions and listings of claims in the application. Please enter these claims as amended.

### **Listing of Claims**

#### 1.-6. (Cancelled)

7. (Currently amended) A semiconductor substrate including at least one laterally unconstrained adhesive patch comprised of a viscous adhesive material, the at least one adhesive patch including a first surface adjacent and supported from beneath by said\_the semiconductor substrate and a second, smaller exposed surface opposite-said\_the first surface exhibiting a generally planar portion over a substantial portion thereof, said\_the semiconductor substrate including said\_the at least one adhesive patch formed by: providing a semiconductor substrate;

dispensing a viscous adhesive material on-said\_the semiconductor substrate; and inverting-said\_the semiconductor substrate without effecting substantial lateral confinement of said\_the adhesive material and maintaining-said\_the semiconductor substrate in an inverted position at least until-said\_the viscous adhesive material sufficiently stabilizes so as to exhibit a desired stable shape and a lateral boundary defining sizes of-said\_the first and second surfaces of-said\_the at least one adhesive patch and wherein at least a substantial portion of-said\_the second, smaller surface of-said\_the at least one adhesive patch exhibits a generally planar configuration and-said\_the size of-said\_the second,

smaller surface is smaller than-said the size of said the first surface.

8. (Currently amended) The semiconductor substrate of claim 7, wherein dispensing said\_the viscous adhesive material, comprises:

placing a template, including at least one aperture, on said\_the semiconductor substrate;

depositing said\_the adhesive material into said\_the at least one aperture; and

removing said\_the template prior to substantially inverting said\_the semiconductor substrate.

# 9.-14. (Cancelled)

15. (Currently amended) A flip-chip including at least one laterally unconstrained conductive bump comprised of a viscous conductive material, the at least one conductive bump exhibiting a height-to-width ratio of at least approximately 3 to 1 and including a first surface adjacent and supported from beneath by said the flip-chip and a second exposed surface opposite said the first surface, said the flip chip including said the at least one conductive bump formed by:

providing said the flip-chip with at least one bond pad;

dispensing a viscous conductive material on-said-the flip-chip to define at least one conductive bump of a selected configuration exhibiting a height-to-width ratio of at least approximately 3 to 1, said-the at least one conductive bump in electrical communication with-said-the at least one bond pad of-said-the flip-chip and including a first surface adjacent-said-the flip-chip and a second surface opposite-said-the first surface; and inverting-said-the flip-chip without substantial lateral confinement of-said-the viscous

conductive material and maintaining-said-the flip-chip in an inverted position at least until-said-the conductive material substantially stabilizes so as to exhibit a desired stable shape and lateral boundary substantially defining sizes of said-the first and second surfaces of said-the at least one conductive bump.

16. (Currently amended) The flip-chip of claim 15, wherein dispensing-said\_the viscous conductive material includes:

placing a template, including at least one aperture, on said the flip-chip;

depositing a conductive material into-said template aperture the at least one aperture of the

template; and

removing said the template prior to inverting said the flip-chip.

# 17.-24. (Cancelled)

- 25. (Currently amended) The semiconductor substrate of claim 7, wherein-said-the viscous adhesive material of-said-the at least one adhesive patch comprises at least one of the group consisting of a polyimide, a phenolic resin, a thermoplastic, and a thermosetting plastic.
- 26. (Currently amended) The semiconductor substrate of claim 7, wherein said the at least one adhesive patch comprises at least one lateral edge exhibiting an angle of repose of approximately 20 degrees.
- 27. (Currently amended) The semiconductor substrate of claim 7, wherein said the at least one adhesive patch comprises at least one trailing edge exhibiting an angle of repose of approximately 13 degrees.
- 28. (Currently amended) The semiconductor substrate of claim 7, wherein-said\_the at least one adhesive patch comprises at least one leading edge exhibiting an angle of repose of approximately 20 degrees.
  - 29. (Cancelled)

- 30. (Currently amended) The semiconductor substrate of claim 8, wherein-said-the template including at least one aperture comprises a print screen including a plurality of apertures.
- 31. (Currently amended) The semiconductor substrate of claim 8, wherein said the template including at least one aperture comprises a stencil including a plurality of apertures.

#### 32.-37. (Cancelled)

- 38. (Currently amended) The flip-chip of claim 15, wherein-said\_the at least one conductive bump comprises at least one lateral edge exhibiting an angle of repose of approximately 20 degrees.
- 39. (Currently amended) The flip-chip of claim 15, wherein-said-the at least one conductive bump comprises at least one trailing edge exhibiting an angle of repose of approximately 12 degrees.
- 40. (Currently amended) The flip-chip of claim 15, wherein-said-the at least one conductive bump comprises at least one leading edge exhibiting an angle of repose of approximately 20 degrees.
- 41. (Currently amended) The flip-chip of claim 15, wherein-said the conductive material of-said the at least one conductive bump comprises a conductive polymer material.
- 42. (Currently amended) The flip-chip of claim 15, wherein-said\_the viscous conductive material of said\_the at least one conductive bump comprises at least one of the group consisting of a polyimide, a phenolic resin, a thermoplastic, and a thermosetting plastic.

- 43. (Currently amended) The flip-chip of claim 16, wherein-said\_the template-having including at least one aperture comprises a print screen including a plurality of apertures.
- 44. (Currently amended) The flip-chip of claim 16, wherein-said the template having including at least one aperture comprises a stencil including a plurality of apertures.

# 45. (Cancelled)

- 46. (Currently amended) A semiconductor substrate including at least one laterally unconstrained adhesive patch comprised of a viscous adhesive material exhibiting a stable, self-supporting shape, the at least one adhesive patch including a first surface adjacent and supported from beneath by-said-the semiconductor substrate and a second smaller, exposed surface opposite-said-the first surface, said-the second smaller, exposed surface exhibiting a generally planar portion over a substantial portion thereof.
- 47. (Currently amended) The semiconductor substrate of claim 46, wherein-said-the viscous adhesive material comprises at least one of the group consisting of a polyimide, a phenolic resin, a thermoplastic, and a thermosetting plastic.
- 48. (Currently amended) The semiconductor substrate of claim 46, wherein-said\_the at least one adhesive patch comprises at least one lateral edge exhibiting an angle of repose of approximately 20 degrees.
- 49. (Currently amended) The semiconductor substrate of claim 46, wherein-said\_the at least one adhesive patch comprises at least one trailing edge exhibiting an angle of repose of approximately 13 degrees.

50. (Currently amended) The semiconductor substrate of claim 46, wherein-said\_the at least one adhesive patch comprises at least one leading edge exhibiting an angle of repose of approximately 20 degrees.

#### 51.-56. (Cancelled)

- 57. (Currently amended) A flip-chip including at least one laterally unconstrained conductive bump comprised of a viscous conductive material, the at least one conductive bump exhibiting a height-to-width ratio of at least approximately 3 to 1 and including a first surface adjacent and supported from beneath by-said\_the\_flip-chip and a second exposed surface opposite said\_the\_first surface.
- 58. (Currently amended) The flip-chip of claim 57, wherein-said\_the viscous conductive material of-said\_the at least one conductive bump comprises at least one of the group consisting of a polyimide, a phenolic resin, a thermoplastic, and a thermosetting plastic.
- 59. (Currently amended) The flip-chip of claim 57, wherein-said-the at least one conductive bump comprises at least one lateral edge exhibiting an angle of repose of approximately 20 degrees.
- 60. (Currently amended) The flip-chip of claim 57, wherein-said\_the at least one conductive bump comprises at least one trailing edge exhibiting an angle of repose of approximately 13 degrees.
- 61. (Currently amended) The flip-chip of claim 57, wherein-said\_the at least one conductive bump comprises at least one leading edge exhibiting an angle of repose of approximately 20 degrees.

# 62.-63. (Cancelled)